

## News Release

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### **MASSACHUSETTS FIRM ANNOUNCES NEW HIGH PERFORMANCE ACTIVE JOYSTICK**

*EMF Joystick™ features high fidelity tactile feedback and powerful force feedback capabilities*

Engineering Matters®, Inc., a woman-owned small business based in Newton, Massachusetts, announces a wide bandwidth and high torque active joystick suitable for use in machine control applications such as simulators or remote controls. The joystick has a frequency response of 1250 Hz and off-the-shelf versions provide maximum torque of 10 ft-lbs (14 N-m) or 40 ft-lbs (54 N-m).

Central to the performance advantages of the joystick is its electromagnetic direct drive. A direct drive design allows high fidelity (fine motion) machine control that eliminates all transmission elements such as gears, pulleys and cables. Transmission elements add expense, complexity, and decrease overall joystick fidelity and reliability. The EMF Joystick™ combines two degrees-of-freedom (pitch and roll) in one very rugged and reliable unit.

The patent-pending technology is scalable allowing smaller, lower cost units or more powerful units to be competitively manufactured. A three degree-of-freedom (pitch, roll, and yaw) unit is on the drawing board.

*Engineering Matters® is a registered trademark and EMF Joystick™ is a trademark of Engineering Matters, Inc.*